FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet 1 of 15

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552

Art Unit: Unassigned 1645

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

U.S. PATENT DOCUMENTS

Exam.l	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
4D	A1	4,356,170	10-26-1982	Jennings et al.	424	88	
	A2	4,727,136	February 23, 1988	Jennings et al.	530	395	
	А3	4,970,070	November 13, 1990	Raff, H.V.	424	14201	•
	Α4	5,576,002	November 19, 1996	Jennings et al.	424	197.11	
	A5	5,683,699	11-04-1997	5,683,699	424	197:11	
	A6	5,811,102	09-22-1998	Jennings et al.	424	197.11	
	Α7	5,902,586	05-11-1999	Jennings et al.	1424	178.1	
	A8	5,969,130	10-19-1999	Jennings et al.	536	29.1	
	А9	6,030,619	Feb. 29, 2000	Granoff et al.	424	185.1	
	A10	6,048,527	04-11-2000	Granoff et al.	424	150.1	
53	A11	10/121,456	Not published	Granoff et al.			

Examiner:

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Date Considered: Decem. 04

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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet 2 of 15

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552 10/643, 465 Filed: Even Date Herewith

Art Unit: Unassigned 1645

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

FOREIGN PATENT DOCUMENTS

Ex	am. t.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Transl YE\$	ation NO
(V	B1	WO 90/06696	June 28, 1990	РСТ				
		B2	WO 91/08772	June 27, 1991	PCT				
		В3	WO 96/14086	May 17, 1996	PCT				
		B4	WO98/08543	05 March 1998	РСТ				
5	•	B5	0 1 45 359 A2	June 19, 1985	EPO				

Examiner:

Date Considered: Decem. 04

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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet 3 of 15

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552

Art Unit: Unassigned

1645

Filed: Even Date Herewith

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

SD	В6	O 504 202 B1	September 23, 1992	EPO	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam.	lnit.	Ref. Desig.	Description
5)	>	C1	Ashton et al., Microb. Patheogeneis 6:455-458 (1989)
		C2	Ashton et al., In: Neisseria 1990, Achtman M. (Ed.), Walter De Gruyter & Co. Berlin pp.187-191 (1991)
5)	>	СЗ	Bartoloni et al., <i>Vaccine</i> <u>13</u> (5):463-470 (1995)

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Date Considered: Decem. 04

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FORM PTO-1449 (Modified)
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In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552 Filed: Even Date Herewith Art Unit. Unassigned

1645

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam.	Init.	Ref. Desig.	Description
<u></u> ۲	······	·C4	Baumann et al., <i>Biochemistry</i> <u>32</u> :4007-4013 (1993)
		C5	Bitter-Suermann et al., Immunol. Res. pp. 225-237 (1987)
		C6	Bowie et al., <i>Science</i> 247:1306-1310, 1990
	\	C7	Brisson et al., "Helical Epitope of the Group B Meningococcal α(2-8)-Linked Sialic Acid Polysaccharide," <i>Biochemistry</i> 31:4996-5004 (1992)
5))	C8	Burgess et al., <i>J. Cell Biol.</i> 111:2129-2138, 1990

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EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line

> FORM PTO-1449 (Modified)
> LIST OF PATENTS AND PUBLICATIONS
> FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)
> Sheet 5 of 15

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552

1645 Art Unit: Unassigned

Filed: Even Date Herewith

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam	. Init.	Ref. Desig.	Description
4	D I	C9	Cross et al., J. Infect. Dis. 147(1):68-76 (1983)
		C10	Devi et al., FEMS Immunol. Med. Microbiol. 14:211-220 (1996)
		C11	Devi et al., In:Neisseria:Proc. Ninth Internet. Pathogenic Neisseria Conference FEMS Immunolog. Med. Microbiol. Evans et al. (Ed.), S.C.C., England pp.427-429 (1994)
9)	, P	C12	Dubois et al., "A Monoclonal Antibody Against <i>Meningococcus</i> Group B Polysaccharides Used to Immunocapture and Quantify Polysialylated NCAM in Tissues and Biological Fluids," <i>Journal of Immunological Methods</i> 181:125-135 (1995)

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EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the

FORM PTO-1449 (Modified)
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In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552

Art Unit: Unassigned 1645

Filed: Even Date Herewith

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam. Init.	Ref. Desig.	Description
SD	C13	Frasch, Carl E., "Meningococcal Vaccines: Past, Present and Future," Meningococcal Disease 245-283 (1995)
	C14	Frosch et al., PNAS 82:1194-1198 (1985)
	C15	Fusco et al., "Preclinical Evaluation of a Novel Group B Meningococcal Conjugate Vaccine that Elicits Bactericidal Activity in Both Mice and Nonhuman Primates," <i>The Journal of Infectious Disease</i> 175:364-372 (1997)
- - 5D	C16	Granoff et al., <i>J. Immunology</i> <u>160</u> :5028-5036 (1998)

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Date Considered:

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EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet 7 of 15

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552 10/643, 465 Filed: Even Date Herewith

Art Unit: Unassigned

1645

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam. Init.	Ref. Desig.	Description
5.D	C17	Granoff et al., "Antibody Responses to the Capsular Polysaccharide of Neisseria Menignitidis Serogroup B in Patients With Meningococcal Disease," Clinical and Diagnostic Laboratory Immunology 2(5):574-582 (1995)
	C18	Gregson et al., Biochem. Soc. Transact. 13:p.462 (1985)
	C19	Hayrinen et al., "Antibodies to Polysialic Acid and its N-Propyl Derivative: Binding Properties and Interaction with Human Embryonal Brain Glycopeptides," <i>The Journal Of Infectious Diseases</i> 171:0001-0010 (1995)
57 57	C20	Horwell, David C., "The 'Peptoid' Approach to the Design of Non-Peptide, Small Molecule Agonist and Antagonists of Neuropeptides," <i>TIBTech</i> 13(4):132-134 (1995)

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Date Considered:

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EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet <u>8</u> of <u>15</u>

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552 Filed: Even Date Herewith Art Unit: Unassigned 1645

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam	. Init.	Ref. Desig.	Description
5	·D	C21	Hurpin et al., <i>Hybridoma</i> <u>11</u> (6):677-687 (1992)
		C22	Husmann et al., J. Histochem. Cytochem. 38:209-215 (1990)
		C23	Jennings, Harold J., "The Capsular Polysaccharide of Group B Neisseria Meningitidis as a Vehicle for Vaccine Development," Microbiol. Immunol. 10:151-165 (1989)
5	ノ D	C24	Jennings et al., "Induction of <i>Meningococcal</i> Group B Polysaccharide-Specific IgG Antibodies in Mice by Using an <i>N</i> -Propionylated B Polysaccharide-Tetanus Toxoid Conjugate Vaccine," <i>The J. Of Immunology</i> 137(5):1708-1713 (1986)

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EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet 9 of 15

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552

Art Unit: Unassigned 1645

Filed: Even Date Herewith

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam.	Init.	Ref. Desig.	Description
5	D	C25	Jennings et al., "N-Polysialic Group B Meningococcal Polysaccharide Mimic a Unique Epitope on Group B Neisseria Meningitidis," J. Experimental Medicine 165:1207-1211 (1987)
		C26	Jennings et al., "Unique Intermolecular Bactericidal Epitope Involving the Homosialopolysaccharide Capsule on the Cell Surface of Group B Neisseria Meningitidis and Escherichia Coli K1," Journal of Immunology 142(10):3585-3591 (1989)
Č	J J J	C27	Jennings et al., "Immunochemistry of Groups A,B, and C Meningococcal Polysaccharide-Tetanus Toxoid Conjugates," <i>The Journal of Immunology</i> 127(3):1011-1018 (1981)

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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet 10 of 15

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552

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Filed: Even Date Herewith

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam. Init.		Ref. Desig.	Description Kabat et al., <i>J. Exp. Med.</i> <u>164</u> :642-654 (1986)
		C30	Lazar et al., Mol. Cellular Biol. 8:1247-1252, 1988
		C31	Leinonen et al., Infect. Immun. 38(3):1203-1207 (1982)
5	, D	C32	Lifely et al., <i>Immunology</i> <u>74</u> :490-496 (1991)

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Date Considered:

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EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the

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In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552 10/643,465 Filed: Even Date Herewith

Art Unit: Unassigned 1645

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam. Init.		Ref. Desig.	Description Livingston et al., <i>J. Biol. Chem.</i> 263:9443-9448 (1988)
		C35	Lucas et al., "Functional Differences in Idiotypically Defined IgG1 Anti-Polysaccharide Antibodies Elicited by Vaccination with <i>Haemophilus Influenzae</i> Type B Polysaccharide-Protein Conjugates," <i>The Journal of Immunology</i> 154:4195-4202 (1995)
\ \ \ \	V Z	C36	Mandrell et al., "Complement-Mediated Bactericidal Activity of Human Antibodies in Poly W α2-8 N-Acetylneuraminic Acid, the Capsular Polysaccharide of <i>Neisseria Meningitidis</i> Serogroup B," <i>The Journal of Infectious Diseases</i> 172:1279-1289 (1995)

Examiner:

Date Considered:

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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet _12_ of _15

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552

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Filed: Even Date Herewith

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam. Init.	Ref. Desig.	Description
57	C37	Michon et al., "Conformational Differences Between Linear α(2-8)-Linked Homosialooligosaccharides and the Epitope of the Group B Meningococcal Polysaccharide," <i>Biochemistry</i> 26:8399-8405 (1987)
	C38	Moreno et al., <i>J. Gen. Microbiol.</i> <u>129</u> :2451-2456 (1983)
	C39	PIZZA et al., "Identification of vaccine candidates against serogroup B Meningococcus by whole-genome sequencing," <i>Science</i> 287:1816-1820 (2000)
50	C40	Pon et al., <i>J. Exp. Med.</i> <u>185</u> :1929-1938 (1997)

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EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet 13 of 15

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910,552 10/643,465 Filed: Even Date Herewith

Art Unit: Unassigned

1645

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam. Init.	Ref. Desig.	Description
SD	C41	Poolman, Jan T., "Development of a Meningococcal Vaccine," Infectious Agents and Disease 4:13-28 (1995)
	C42	Raff et al., J. Infect. Dis. <u>157</u> (1):118-126 (1988)
	C43	Rougon et al., <i>J. Cell. Biol.</i> <u>103</u> :2429-2437 (1986)
	C44	Sato et al., J. Biol. Chem. 270:18923-18928 (1995)
40	C45	Sukkonen et al., <i>Microbial. Pathogenesis</i> 1:101-105 (1986)

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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet 14 of 15

In the Application of GRANOFF et al.

Serial No.: DIV of 09/910.552

Art Unit: Unassigned 1645

Filed: Even Date Herewith

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam. Inití.	Ref. Desig.	Description
5D .	C46	TETTELIN et al., "Complete genome sequence of Neisseria meningitidis serogroup B strain MC58," Science 287:1809-1815 (2000)
	C47	Tome et al., Acta Pathol. Jpn. 43:168-175 (1993)
	C48	Vaesen et al., <i>Biol. Chem. Hoppe. Seyler</i> <u>372</u> :451-453 (1993)
50	C49	Westerink et al., "Development and Characterization of an Anti-Idiotype Antibody to the Capsular Polysaccharide of Neisseria Mengingitidis Serogroup C," Infection and Immunity 56(5):1120-1127 (1988)

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Date Considered:

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In the Application of GRANOFF et al.

Serial No.: DIV of 99/910,552 10/643,465 Art Unit: Unassigned 1645

Filed: Even Date Herewith

Examiner: Unassigned

Title: MOLECULAR MIMETICS OF UNIQUE NEISSERIA MENINGITIDIS SEROGROUP B EPITOPES

Exam. Init.	Ref. Desig.	Description
SD	C50	DataBase WPI., "Novel Strain of <i>Neisseria Meningitidis</i> Group Useful Produce Capsule Polysaccharide Protein Complex," January 30, 1992

Examiner:

SD

Date Considered:

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EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the